

DHC - 123
Due Dec 10

THE SUPERIOR OIL COMPANY

P. O. BOX 1900
MIDLAND, TEXAS 79701

November 16, 1972

New Mexico Oil Conservation Commission
P. O. Box 1980
Hobbs, New Mexico 88240

Re: Request for exception to Rule 303A
Superior's State "K" No. 1
Unit J, 2130' FSL & 1980' FEL
Section 4, T-14-S, R-34-E
Cerca (Upper Penn) Field
Cerca (Lower Wolfcamp)
Lea County, New Mexico

Gentlemen:

In accordance with the rules and regulations as set forth by the New Mexico Oil Conservation Commission, we respectfully request an exception to Rule 303A to permit the down hole commingling of produced fluids from the Cerca-Upper Pennsylvanian and Cerca-Lower Wolfcamp Pools of the above captioned well.

Attached are the necessary forms and information concerning the request of an exception to Rule 303A.

Yours very truly,

THE SUPERIOR OIL COMPANY

James C. Willner

J. C. Willner
Junior Petroleum Engineer

JCW/wc
Attachments



THE SUPERIOR OIL COMPANY
State "K" Lease Well No. 1
Unit J, 2130' FSL & 1980' FEL
Section 4, T-14-S, R-34-E
Lea County, New Mexico

Basis for exception to Rule 303A to permit the down hole commingling of the Cerca-Upper Pennsylvanian and Cerca-Lower Wolfcamp Pools.
Dual completion order No. R-3614

Effective December 9, 1968, the State "K" Well No. 1 was produced as a dual from the Cerca-Upper Pennsylvanian (Perfs 10,421'-30') and the Undesignated-Lower Wolfcamp (Perfs 10,335'-40') Pools. On July 12, 1969 the Lower Wolfcamp was temporarily abandoned and production has since been from the Upper Pennsylvanian.

Attached are production decline curves and gas-oil ratio tests for the Upper Pennsylvanian and Lower Wolfcamp zones. We may reasonably assume that total daily production before commingling will not exceed 80 barrels of oil per day, as set forth under Rule 303C. Furthermore, neither zone is capable of producing more water than the combined limit of 80 barrels of oil per day.

The bottom hole pressures of the Upper Pennsylvanian and Lower Wolfcamp are not expected to exceed 400 psi.

Produced fluid from the Upper Pennsylvanian is 42.1° API crude and from the Lower Wolfcamp is 44.5° API crude. The water cut from both zones is negligible and as such produced fluids from each zone are believed to be compatible.

The present purchase price for 40 degree or higher API crude is \$3.56 per barrel. Thus the sum of the values for the individual streams would be \$3.56 per barrel as would the value of the commingled streams which would have an API gravity of 43.5 degrees.

Offset operators shall be notified, as required, by copies of this application.

NEW MEXICO OIL CONSERVATION COMMISSION
GAS - OIL RATIO TESTS

C-116
Revised 1-1-65

Operator The Superior Oil Company		Pool Cerca-Upper Penn. Ext.		County Lea												
Address P. O. Box 1900, Midland, Texas 79701		TYPE OF TEST - (X)		Completion ☐ Special ☒												
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	STAB STATUS	CHOKESIZE	TBG. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT./BBL.		
		U	S	T							R	WATER BBLs.	GRAV. OIL		OIL BBLs.	GAS M.C.F.
State "K"	1	J	4	14-S	34-E	11-5-72	P	--	*1450	25	24	1.0	42.1	20	16	800
* Power Oil Pump Pressure																

No well will be assigned an allowable greater than the amount of oil produced on the official test.
During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.
Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.
Report casing pressure in lieu of tubing pressure for any well producing through casing.
Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

James C. Willner
(Signature)
Junior Petroleum Engineer
November 16, 1972
(Date)

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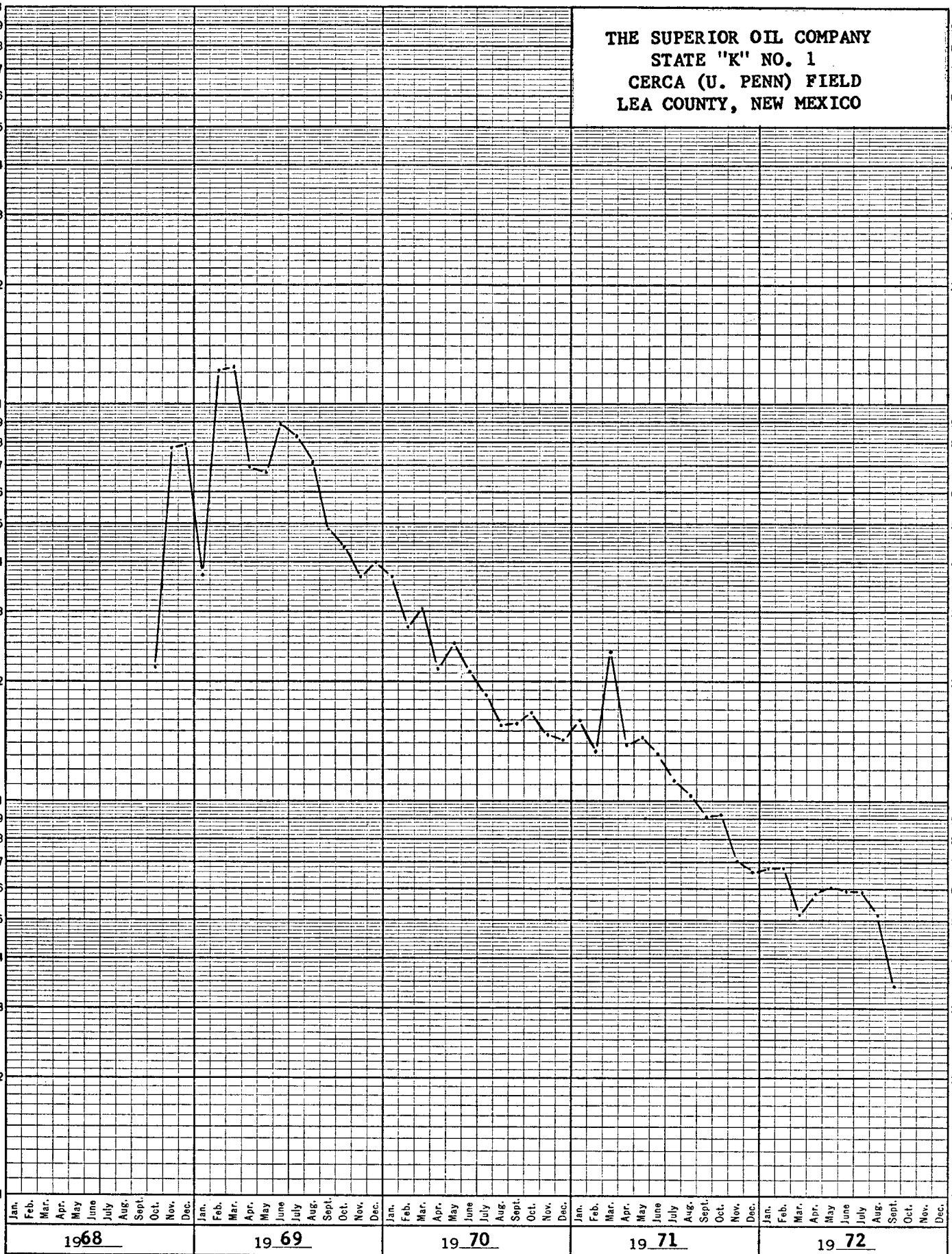
THE SUPERIOR OIL COMPANY
STATE "K" NO. 1
CERCA (U. PENN) FIELD
LEA COUNTY, NEW MEXICO

10,000

BARRELS-OIL/MONTHLY

1,000

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1968

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NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-116
Revised 1-1-65

Operator		Pool		County										
The Superior Oil Company		Cerca-Lower Wolfcamp		Lea										
Address		TYPE OF TEST - (X)		Completion ☐ Scheduled ☐		Special ☒								
P. O. Box 1900, Midland, Texas														
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT./BBL	
		U	S	T						R	WATER BBLs.	GRAV. OIL		OIL BBLs.
State "K"	1	J	4	14-S 34-E	*7-5-69	P --	--	--	24	0	44.5	61	11	180
* NOTE: Subject completion temporarily abandoned July 12, 1969.														

No well will be assigned an allowable greater than the amount of oil produced on the official test.
During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.
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James C. Willner J. C. Willner
(Signature)
Junior Petroleum Engineer
(Title)
November 16, 1972
(Date)

100,000

10,000

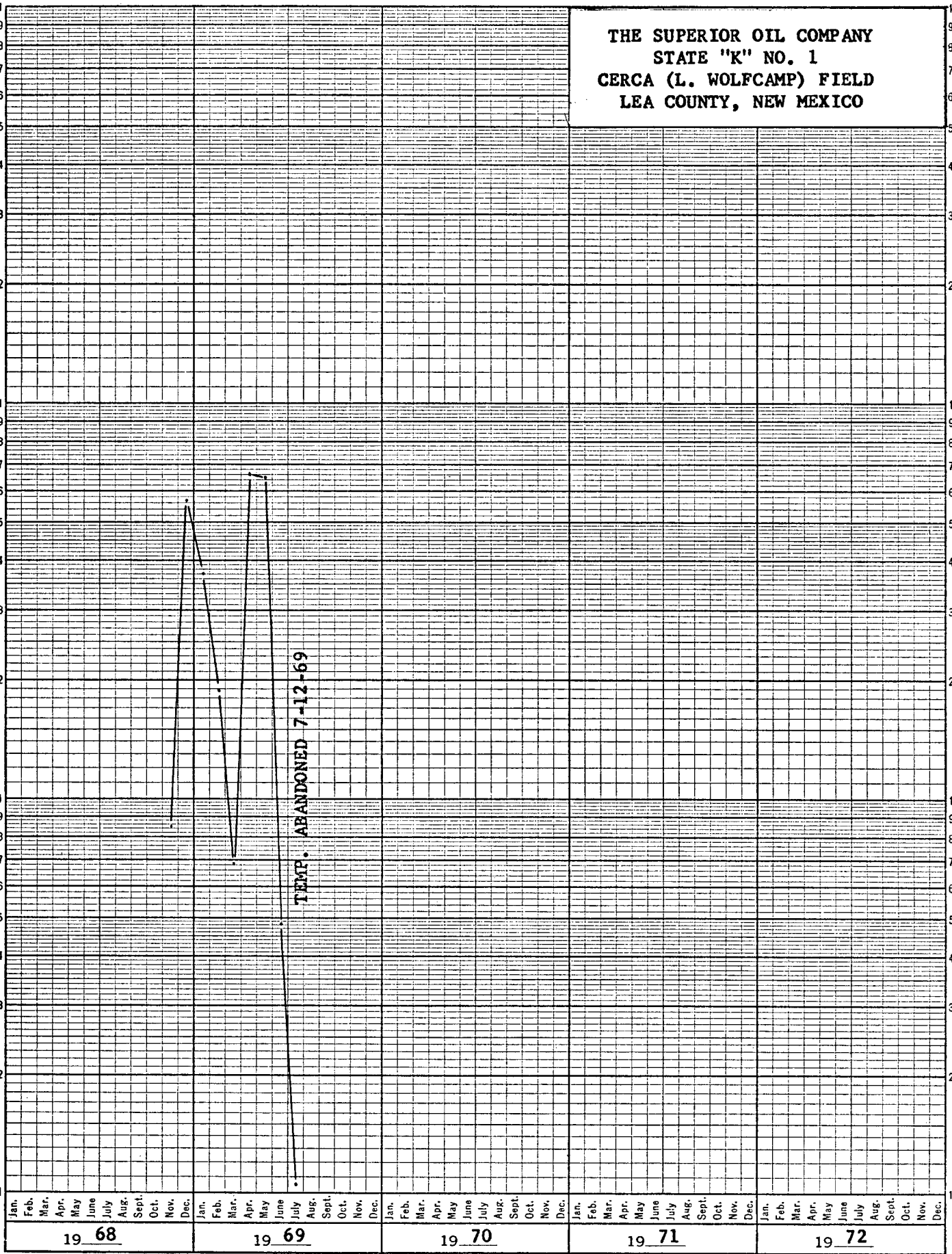
BARRELS-OIL/MONTHLY

KE 5 YEARS BY MONTHS 46 6690
X 3 LOG CYCLES
MADE IN U.S.A.
KEUFFEL & ESSER CO.

THE SUPERIOR OIL COMPANY
STATE "K" NO. 1
CERCA (L. WOLFCAMP) FIELD
LEA COUNTY, NEW MEXICO

TEMP. ABANDONED 7-12-69

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